

## **NETWORK ROUTING EMPLOYING FREE-SPACE OPTICAL BROADCASTING**

### **ABSTRACT OF THE DISCLOSURE**

5           A method and a network to transfer data between computing environments employing  
holographic transform functions. Each of the computing environments communicate via an  
optical transceiver system that includes a plurality of optical sources, an optical detector, a  
dispersive element in optical communication with the plurality of optical sources and a plurality  
of holographic transform functions. Each of the detectors is uniquely associated with one of the  
10       plurality of computing environments. The holographic transform function associated with one of  
the detectors of the plurality of computing environments differs from the holographic transform  
functions associated with the detectors of the remaining computing environments of the plurality  
of computing environments.

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